PEGOS VALLEY BUGAR.

A Description of How it Will be Mannfurtured-Ratractic; Sugar From

It is safe to say that every person in the more any saids escaping the first liming. valley, and especially in the vicinity of It is then pumped to a clean set of filters Eddy, are vitally interested in the heet en- in the filtering room and comes back ingar factory to be erested here and every. So the main room to be pumped as rething that pertains thereto. It is also a quired into the great condensing boilers, reasonably safe proposition that very few three in number. The great air-pump people of the valuey have ever seen a su. removes the air and steam produced ingar manufactory or are acquain'ed with side of the third boller, creating in itself its porkings. Therefore it follows that and the two preceding buildes a gradually a brist description of the process by decreaing vacuum, so that the liquid bolls which the snocharine matter is abstracted down very sapidly and at a low temperafrom the bests and converted into segar ture. After partial condensation the will not be without interest liquid passes to the second for further

The bests are brought to the factory concentration, and finally into the third. to railroad cars and put on a special trach, The hous and pressure of each succeeding in the rear of the factory. Along the botter to regulated to the increasing dentrack on which the car, loaded with bests, ulty of the syrup. From the last con are standing runs a canal, in which bests denser the concentrated sysup peaces in drop when needed, securding to the wants to large reservoir tanks, and is next pamof the factory, A rapid stream of water ped into the "vacoutm pane," which are Souts them along, souking and washing as really great are tight, upright cylinders, they go, until they reach the building. from which air pump exhaust the rising

Here they are dropped into a wheel, stam. In these vacuum pans the ayrup where the water is separated from the becomes a thick mass of augar crystals beets and flows into the viver. The bests and molaces. From these, mixers carry without the water are elevated by the the mass and drop it into the 'contrifuwheel, which, to this effect is provided gale." These are iron orlinders, two with buckets. Entering the buckets at feet high and three feet to diameter, the the bottom, the bests are lifted by mean" water rim covered with fine brass wire of the rotary motion of the wheel and drop cloth. Part are working while the others ped inside an immense sylmder, which are being emptied and re supplied. They gives them many whirls in water and revolve about 1,200 times a minute, the drops them out at the slavated end outer sim travelling 8,507 feet a minute.

They drap off clean into a chute which The sugar files against the outside, and in corries them into a perpositionar elevator two or three minutes all the molessas to with buckets which carries the heets to thrown through the wire gause, and drops the top of the main room, where a chute lute a receptacle below, to be further conducts them into the mill which outs treated and concentrated, and to produce them, a ton in three minutes, into little another lot of chrystallized sugar. corrugated strips as large as a hou's quitt. The sogar, now white, is aprayed with and two to four inches long. These a foreible jet of mixed alrand cold water, strips are called consetts, a technical all of which flies through the game, leav-French name which answers as well as any ing the sugar a mass of white grains, a

they would pack in diffusion cell and not let the water run through freely. Ment the serew elegator into the drying room. the diffusion cells, four and our-half feet Hessian thirty foot long revolving cylin dismeter and ten feet high, and holding one tou of pulped beets. Twelve of these cells arranged and connected little shelves, while in the center is a with each other is called a diffusion batinside of it. As the sugar is brought up tery, just as several cups set in galvanio alectricity are called a buttery. elevated end of the great cylinder. It is

The successive cells are numbered une, two, three, four, etc. Each cell has a cap or cover which can be turned to one side they some around to the top (as the exlinor be closed air tight when put in plane der slowly ravolves) they drop the engar with rubber under the outer rim and off upon the inner warm cylinder, which brought down with a powerful leverscraw, dries is, and it falls off to be picked up The fist bottom is similarly closed, but by other shelves and carried up again, se

has a faise bottom a little above it-s the cylinder stands sloping the dry sugar strong copper plate full of flue holes. A works down towards the far open end. metal water pipe suters the top just be- This and terminates in a rim of fine brass low the ouver. Another similar pipe wire, next to which is one of a conrect below runs out from the open space mesh. All the fine grain sogar, composbetween the buttom and the perforated jug a great deal of it, now entirely dry. fame buttom. This ascends and enters falls through the fine wire and goes down the top of cell number two, and in doing so passes through a steam pipe or chest, ping rooms below. The next grade in

From number two a similar pipe runs fineness pusses through the next acreen, to number three, and so on through any and falls down another chute. The number of cetts in the battery. The tops of the cells being opened, they are filled third chute. When packed the product with the occasetts or strips of beets, and is weighed and is then ready to put on the covers are featened down. Hot water the market, is then let in through the pipe, the requir ed pressure being obtained by placing the water tank at any desired height

As will be seen the hot water passes down through the contents of cell number one, then out at the bottom and up over through a long room with partitions into th top of sell number two, and down nearly across, first from one side and through its contents, and so on through then from the other, twenty or thirty of the other cells. The water being cooled them. These check and cool the current in passing th ough the material, is heat. of air, and all the fine angar dust drops ed to the cleam chests. In practice thermometers on these indicate by a disl on the usually re-dissolved and concentrated and out-side when the liquid is of the desired orystallized into coarser grains through the centrifugals. So nothing is lost the more and the attendant turns the steam on or off from any steam chest as needed. The same water passes through aprop form. all the cells, often obtaining all the augar it can dissove before reaching the last by Engineer Saitch and was printed in one. By the time ten successive waters the Argus a couple of weeks ago. have passed through cell number one, all opened, the extracted . Its bottom is pecos toto a large constitute are dropped into a large receptable below and new material is put in. The fresh water inlet pipe to changed to number two, and number one becomes number twelve, or the last of the series, the anturated joins leaving this. Cell number two having already had claves dones of water passed through it, the first supply of fresh water passing

diffusion buttery and its receiving tank, te carried into great, tall tanks, in which lime, which voltes with and destroys , untive solds in the bress and other imgas which was oneight from the kilus which burn the lime in the building to solidifies any excess of time not already satistized. The liquid to then carried off into the liter rence, where it passes through in 45

& remarkable series of filters, which re-

more the lime and other impurities, The clear liquid looking like this moles

ges then flows down into shorter tanks, shere a little more lime is added to re-

receptacle below, whosen it is taken by a

inder, see or six feet in diameter, sloping

downward. Its inner suctues is full of

smaller eviloder kept warm with steam

from the centrifugals, it drops into 'he

picked up by the little shelves, and when

convest grains fall out of the end into a

An interesting arrangement is the our-

rept of air sucked through the long exi-

inder from the far end, which takes up

moist vapor from the drying sugar and

some fine sugar dust. This air is driven

on the floor as pare source floor. It is

The above description was furnished



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TRAPPING THE CURCULIO.

Detailed Account of Just Haw This Star The jarring process is very simple as

explained by Mr. S. D. Willard in a com-munication to Rural New Yorker:

Provide a tool as shown in Fig. 1, which is an ordinary hos bandle, at the end of which is a light, hard wood block, the upper part of which is made concave, so as to permit being filled with cotton, and then tightly covered with leather of some kind. It must be soft, so as to do no injury to the bark of the tree when rench name which answers as well as any ing the sugar a mass of white grains, a used as a pounder to jar it. No. 2 repre-If ground fine or late thin shavings, triffs damp. The sugar is dropped into a sents a frame that may be made of 2 1/2 by 114 inch pine, notched and nailed together at C, with a distance from A to
B of about 9 feet and from B to D
about 4)4 feet. A crossbar of the same
width and thickness is notched and
tightly nailed at the points B and D. Upon the frame thus made stretch and tack a piece of factory cloth, 3 yards long and 11s yards wide. Provide your-self with two of these frames. Have a boy carry one, and with the other in your own hands, and the pounder, you

are ready for business.
Drop the frames under the tree with the sheet side up, so that the tree may be about opposite the point C of the

44 750 To.1.

Fig. 2. TOOLS FOR JAKRING THE CURCULIO.

sheets. You then have the ground beneath the tree covered for about nine feet in each direction. A sudden blow on a few of the larger limbs, if the tree is large, or one blow on the body, if the tree is small, will cause the curculies to drop upon the sheets, from which they may be picked at once and destroyed. A few hours' experience will enable any eye to detect them at once. Two or three

insects usually begin their work on the outside of an orchard, especially if there be a nearby belt of timber. Honce we begin to hunt them aret on the out-

Would Not Use the Plum on Peach. T. T. Lyon of Michigan expresses himself as follows on a subject of wide-

north. It prevails rather in the more southerly localities, in which the Chickamw and the more southerly strains of Americana are mostly grown. These possess psouliar characteristics more nearly akin to those of the peach, upon which they are, therefore, probably more generally successful. Even in such case, however, there is much reason for the company that even the company of the company that even the company of the comp Miles | Miles | 100 | the assumption that even the southern varieties of plums would be more perfectly "at home" upon stocks of their life | Arrive Bareal Larva | 100 pm | own species, and it may be reasonably

suspected that peach stocks are to general | R. H. PIERCE, President, use at the south mainly because they are more readily obtained. At the north I would in no case use plum trees grown on peach stocks, except possibly to be planted in very light, dry soils, in which the peach stocks would be more at home. The short lived character of the peach, and its liability to the attacks of yellows, borers and other maladies, are sorious objections to such practice, at least at the north.

Odd Mention

II. A. Siebrecht would choose the fol-lowing vines for a rustic arbor: Wistacia chinensis, Tecoma pracox, the new improved trumpet vine; Aristolochia sipho Dutchman's pipe, Clematis paniculata, new and superb; Lonicera halleana ever blooming honeysuckle.

"We know of no other summer bed ding or house plant more liberally or more distinctly variegated than the comparatively new abutilon, Souvenir de Bonn," says Rural New Yorker.

In some places, particularly along the Hudson, blackberries are trained on wires, after the manner of grapes. The wo wire trellis is generally preferred.

The New England Homestead reports a pig record for the new peach Cros-by. It originated in New England and has thus far proved to be the hardies: peach ever grown in that trying climats.

Among deciduous trees the value of the boney locust and reaga crungs for nedging is well known. The bemissk sprice and arbor vites are also in much request among evergreen trees. Mee-han's Montilly mays that the Norway spruce is equally good, though not a

Letting the People Rnow. When you reduce advertising to its

lowest terms, it is merely letting people know that you are to business, what kind of business it is, how you can serve them, and that you want their trade.-

Mr. Henderson lays down this rule The shoot or stock to be budded upon must be in a thrifty growing state, so that the bark can be raised freely from the wood, and the bud to be inserted must be in such a state that it shows prominently at the axil of the leaf."

For a "home mixture" of fertilizers for strawberries Rural New Yorker says there is nothing better, all things onsidered, than muriate of potash one part and ground flue bone three parts.

Cost of Bunning Boston

The lighting of the city in charge of the lump department called for \$583,-500, and the library for an even \$175,-000; \$120,000 went for the overseeing of the poor, and \$130,000 was charged against the parks. To preserve order in the city through the police department cost \$1,400,000, of which over \$71,000 was for pensions. To the school coneye to detect them at once. Two or three mittee was appropriated \$1,020,000, and minutes will suffice at any tree; hence a \$210,000 in addition went for school-large number of trees can be run over in a day.

In the was appropriated \$1,020,000, and houses. Other public buildings called for \$170,000, and the great street de-The work should begin as soon as the partment, with its many divisions, had fruit is formed and be followed for \$1,055,000 appropriated for its use. two or three weeks, at first daily or City debt requirements footed up \$2,-until it is evident that the number of \$99,704. These were the principal apinsects is being greatly reduced, so that propriations, the smaller ones bringing only a few are found, when it may be the amount up to a grand total of \$14, safe to do it only alternate days. The \$018,043—truly an income for a princi-

A Good Tree For Street Planting. The ginkgo, or maidenhair tree, is one of the very best, is first class. The only objection is the bed odor the fruit has when matured. This tree is not known in a wild state and is considered a relic With the domesticas and northern Americanas there is, in my opinion, never an advantage, but a disadvantage rather, in the use of peach stocks for the plum. This method of propagation is believed to be but little practiced at the angle of the minuse of propagation is believed to be but little practiced at the stocks for the plum. It prevails and the practiced at the stocks for the plum is believed to be but little practiced at the stocks for the plum is not the prevails and the practiced at the propagation is believed to be but little practiced at the propagation is the prevails and the prevails and the propagation is the prevails and the propagation is the prevails and the prevails and the prevails and the propagation is the prevails and the propagation is the prevails and the propagation is the prevails and the prevails and the propagation is the propagation is the prevails and the propagation is the propagation is the prevails and the propagation is the propagation is the propagation is the prevails and the propagation is the propagation is the propagation in the propagation in the propagation is the propagation in the propagation in the propagation is the propagation in the propagation in the propagation is the propagation in the propagation in the propagation in the propagation is the propagation in the propagation in the propagation in the propagation is the propagation in the propag

For the Wise.

To advortise or not to advortise—
That is the question.

Whether 'tis nobler in a business man to suffer.

The loss and showness of unbought bargains, Or, by advortining, sell these.

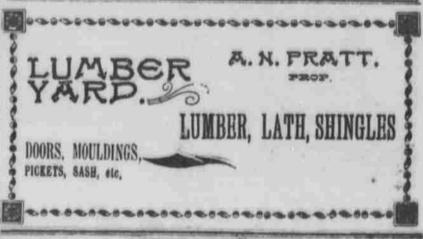
There's the nightmure of neglected opportunity—
Or space unscompted in the public press—
That might surich the merchant's pocket By emptying his pistheric sholves—
All these, and other things to prise,
Enough lead the wise to advortise.

Bloomed Traveller.

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through it removes its last vestige of sugar

It is then suitled with frosh pulp, and be omes number twelve of the series numher one bacoming number sleven. So the process goes on, round and round

The augar-saturated liquid from the the sweet liquid is mixed with milk of purities. After awhile the carbonic acid make the milk of time with, is let in shrough the liquid, and unites with and

Pecos River Railroad Co. Time Table No. 14. To take effect Wednesday, May 6th, 1896, at 12:01 o'clock a. m.

Standard Central Time.

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